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original, and those representing the anatomy and histology of insects are new and valuable. Especial attention is devoted to the mechanics of the appendages as well as the trunk and wings. The nervous system is thoroughly discussed, while the structure and functions of the organs of sight, hearing, touch, smell and taste are treated of at length. The portion on reproduction is not so original as the rest of the book. The second part is devoted to the habits of insects, and is more of a compilation than the first part, the author's *forte* being the anatomy and physiology of insects, his skill in anatomical drawing being of a high order. The work forms the twenty-first and twenty-second volumes of a series of popular works on *Naturkräfte*, a word not easily translated, but the series corresponds to the international science series of the Appletons. The illustrations are excellent and numerous, being a most valuable feature of the work.

RECENT BOOKS AND PAMPHLETS.—Freie Wissenschaft und freie Lehre. Eine Entgegnung auf Rudolf Virchow's Münchener Rede über "Die Freiheit der Wissenschaft im modernen Staat." Von Ernst Haeckel. 8vo, pp. 106. Stuttgart, 1878. From the author.

Notice sur l'Habitat et les Caractères du *Macroscincus coctei* (Euprepes coctei, Dum. et Bibr.) Par J. V. Barboza du Bocage. 8vo, pp. 12, with photographic plate. Lisbon, 1873. From the author.

Mélange Erpetologiques. Par J. V. Barboza du Bocage. (Ext. do Jorn. de Sci. Math. Phys. e Naturales, Lisboa, 1873.) 8vo, pp. 24. From the author.

Lista de Mamíferos das possessões portuguezas da Africa occidental e diagnoses de algumas especies novas. Pelo Dr. W. Peters, Director Mus. Zoöl. da Univ. Real de Berlin. (Ext. do Jorn. etc.) 8vo, pp. 5. Lisbon, 1870. From the editor.

Algumas considerações acerca da industria piscicola em Portugal. Por F. de Brito Capello. (Ext. do Jorn. etc.) 8vo, pp. 9. Lisbon, 1876. From the author.

Entomological Notes vi. By Samuel H. Scudder. (Repr. Bost. Soc. Nat. Hist., Vol. xix, 1877-78) 8vo, pp. 55. Boston, 1878. From the author.

Additions to the Insect-fauna of the Tertiary Beds at Quesnel (British Columbia). By Samuel H. Scudder. (Ext. Geolog. Surv. Canada. Rep't of Progress, 1876-77.) 8vo, pp. 8. From the author.

Psyche. Organ of the Cambridge Entomological Club. Vol. ii, Nos. 45, 46, Cambridge, Mass., Jan., Feb., 1878. 8vo, pp. 97-120. From S. H. Scudder.

Proceedings of the American Association for the Advancement of Science. Twenty-sixth Meeting, held at Nashville, Tenn., Aug., 1877. 8vo, pp. 400. Salem, 1878.

Journal of the Franklin Institute. (Third series, Vol. lxxvi, N o. 2, Aug., 1878.) From the Institute.

Die Reptilien und Fische der Böhmisches Kreideformation. Von Dr. Anton Fritsch. Mit 10 lithographischen Tafeln und 66 Holzschnitten. 4to, pp. 44. Prag, 1878. From the author.

The Journal of the Royal Geographical Society. Vol. xlvii for 1877. 8vo, pp. i-iv, 300, with 14 maps and plates. London, John Murray, 1878. From the Society.

Labyrinthodon Rüttimeyeri. Ein Beitrag zur Anatomie vom Gesammt Skelet und Gehirn der Triassischen Labyrinthodonten. Von Robt. Wiedersheim, Prof. in Freiburg i. B. (Abhand. d. Schweiz. Palæont. Gesellsch. Vol. v.) 4to, pp. 56, plates 3. Zürich, July, 1878. From the author.

Proceedings of the California Academy of Sciences. Vol. vi, 1875. 8vo, pp. 222, and Vol. vii, part i, 1876, 8vo, pp. 176. San Francisco, 1876-7. From the Society.

Annual Record of Science and Industry for 1877. Edited by S. F. Baird, with the assistance of eminent men of science. 8vo, pp. 480. New York, Harper & Brothers, 1878.

First Annual Report of the United States Entomological Commission for the year 1877, relating to the Rocky Mountain Locust and the best method of preventing its injuries and of guarding against its invasions; in pursuance of an appropriation made by Congress for this purpose. With maps and illustrations. 8vo, pp. 477, and appendices 294. Washington, 1878. From the Department of the Interior.

Zoologischer Anzeiger. Herausgegeben von Prof. J. Victor Carus in Leipzig. I Jahrgang. Nos. 1-3. July, 1878. 8vo, pp. 60. Verlag von Wilh. Engelmann, Leipzig. Jährlich erscheinen 25-26 Bogen. Price 6 marks. From the editor.

Tidskrift for Populære Fremstillinger af Naturvidenskaben, udgivet af C. Fogh, C. F. Lütken og Eug. Warming. Femte Raekke, Femte Bind, Tredje Aargang. 8vo, pp. 161-240. Kjöbenhavn, 1878. From the editors.

The Botanical Gazette, August, Sept., 1878, Vol. iii, No. 3. 8vo, pp. 65-72. J. M. & M. S. Coulter, Editors and Publishers, Logansport, Ind., 1878.

The American Journal of Microscopy and Popular Science. Vol. iii, No. 7, New York, July, 1878. From the editor.

Proceedings of the Royal Geographical Society, Vol. xxii, Nos. 2, 3, March and May, 1878. 8vo, pp. 67-229. London. From the Society.

Matériaux pour l'Histoire Primitive et Naturelle de L'Homme. Revue Mensuelle Illustrée dirigée par M. Emile Cartailiac avec le concours de MM. P. Cazalis, Fondouche et Chantre. 2^e Serie, Tome ix, 1878. 4^e et 5^e livraisons with map. 8vo, pp. 147-248. Toulouse, 1878. From the editors.

The Popular Science Monthly, August, 1878, No. lxxvii. Supplements xv, xvi, July and August, 1878, 8vo. New York, D. Appleton & Co. From the editors.

Le Naturaliste Canadien. Redacteur, M. L'Abbe Provancher. Vol. x, No. 6, June, 1878. Cap Rouge, Prov. de Quebec, Canada. From the editor.

Proceedings of the Academy of Nat. Sciences of Phila., 1878. 8vo, pp. 217-264. From the Society.

La Tempestad de los Dias 7 y 8 Abril de 1878. Estudia Meteorologico por el ingeniere civil Vicente Reyes. 8vo, pp. 12 and chart. Mexico, 1878. From the author.

Addenda to etiological views expressed in a paper "On the mechanical genesis of tooth-forms." By J. A. Ryder. 8vo, pp. 3. (Dental Cosmos, Repr.) September, 1878. From the author.

The Bee-keepers' Magazine. Vol. vi, No. 8, August. 8vo, pp. 154-176. New York, A. J. King & Co., 1878.

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GENERAL NOTES.

BOTANY.

THE GRASSES OF MEXICO.—M. Eugène Fournier has raised the number of species of grasses from eighty-eight, as reported in Kunth's Synopsis, to 638. He finds that sixteen species extend from the shores of the ocean to the elevated plateaux. He also finds, as he had previously done in regard to the ferns, that many species grow on both slopes of the Cordilleras. Out of 162 species common to Mexico and other regions, only two grow in California. East of the Rocky Mountains, Texas has thirty-two species, one grows in the prairie region, and the other fifty-nine United States species are almost confined to Florida, Georgia and South Carolina, scarcely any occurring in Louisiana, Mississippi, or Alabama. The cause of this peculiar distribution may be found in the direction of certain winds, especially the whirlwinds